

## Hands-On: Docker Swarm Initialization on Ubuntu



Since we have already installed Docker in our system, along with that Docker Swarm is already installed. We just need to initialize the Docker Swarm.

**Step 1:** Use the following command to create a new swarm

\$ sudo docker swarm init -advertise-addr <master IP>

```
ubuntu@ip-172-31-30-114:~/compose$ sudo docker swarm init --advertise-a ddr 18.224.140.254
Swarm initialized: current node (mvt7ujrvy3oqtakn7n8mp59hu) is now a ma nager.

To add a worker to this swarm, run the following command:

docker swarm join --token SWMTKN-1-0n6hs44w6bez8wh9sht656ycqph6ksqo cdbt65lmorrzsncw1y-4n8xxhy4incc62unze4z75dzy 18.224.140.254:2377

To add a manager to this swarm, run 'docker swarm join-token manager' a nd follow the instructions.
```

Copy the token (marked in red) to clipboard

**Step 2:** Now we will start a new session as worker and we will join the swarm that we just created. Paste the copied token shown below.

```
$ sudo <token>

### ubuntu@ip-172-31-22-82:~

ubuntu@ip-172-31-22-82:~$ sudo docker swarm join --token SWMTKN-1-0
hy4incc62unze4z75dzy 18.224.140.254:2377

This node joined a swarm as a worker.

ubuntu@ip-172-31-22-82:~$
```

**Step 3:** Now check we will check the node list as the manager

\$ sudo docker node ls



As you can see, worker has joined and statuses of both nodes are ready.

**Step 4:** Follow the commands given below to leave the swarm:

```
$ sudo docker leave --force

| wbuntu@ip-172-31-22-82:~
| ubuntu@ip-172-31-22-82:~$ sudo docker swarm leave --force
| Node left the swarm.
| ubuntu@ip-172-31-22-82:~$ |
```

Now that the node left the swarm, let's check the node list as manager and check the status of the nodes.

Step 5: To check the node list as manager follow the command given below:

As you can, the status of the node that left the swarm is no longer ready.



## **Step 6:** To leave the swarm as manager follow the command given below:

\$ sudo docker swarm leave --force

```
ubuntu@ip-172-31-30-114: ~/compose
ubuntu@ip-172-31-30-114: ~/compose$ sudo docker swarm leave --force
Node left the swarm.
ubuntu@ip-172-31-30-114: ~/compose$ [
```